

1 1. (Amended) A packet radio system comprising:

2 a digital mobile communication network;

3 packet data terminal equipments;

4 packet radio support nodes connected to the mobile communication network

5 which provides them with a radio interface for packet switched data transmission with the

6 packet data terminal equipments;

7 gateway packet radio support nodes providing an access point to an external

8 packet data network;

9 an internal packet switched backbone network to which the packet radio support

10 nodes and the gateway packet radio support nodes are connected; and

11 a billing gateway support node, connected to said internal backbone network to

12 receive user-specific charging information collected by the other support nodes and to

13 forward the charging information to the charging system.

1 2. (Amended) The packet radio system as claimed in claim 1, wherein the

2 communication protocol between the billing gateway support node, the packet radio

3 support nodes and the gateway packet radio support nodes is a packet switched

4 communication protocol of said internal backbone network.

1 3. (Amended Twice) The packet radio system as claimed in claim 1, wherein

2 the communication protocol between the billing gateway support node, the packet radio

3 support nodes and the gateway packet radio support nodes is independent of a

4 communication protocol between the gateway support node and the charging system.

21

1 4. (Amended Twice) The packet radio system as claimed in claim 1, wherein
2 the communication protocol between the billing gateway support node and the charging
3 system is different from a packet switched communication protocol of said internal
4 backbone network.

1 5. (Amended Twice) The packet radio system as claimed in claim 1, wherein
2 the billing gateway support node is provided with a direct connection to the billing system.

1 6. (Amended Twice) The packet radio system as claimed in claim 1, wherein
2 the billing gateway support node is connected to the billing system via an intermediate
3 network, such as an intelligent network, or via an intermediate network element, such as
4 a mobile services switching center.

1 7. (Amended Twice) The packet radio system as claimed in claim 1,
2 wherein the address of the billing gateway support node to which the other support
3 nodes send charging information is fixed.

1 8. (Amended Twice) The packet radio system as claimed in claim 1, wherein
2 the address of the billing gateway support node to which the other support nodes send
3 charging information is dynamic.

1 9. (Amended) The packet radio system as claimed in claim 8, wherein the
2 address of the billing gateway support node to which the other support nodes send
3 charging information is subscriber-specific and is given to the respective other support
4 node when the subscriber begins using a service.

B1
1 10. (Amended Twice) The packet radio system as claimed in claim 8, wherein
2 the support nodes are arranged to send the charging information to the billing gateway
3 support node of the subscriber's home network or the visited network.

B2
1 11. (Amended) The packet radio system as claimed in claim 2, wherein the
2 communication protocol between the billing gateway support node, the packet radio
3 support nodes and the gateway packet radio support nodes is independent of a
4 communication protocol between the gateway support node and the charging system.

1 12. (Amended) The packet radio system as claimed in claim 2, wherein the
2 communication protocol between the billing gateway support node and the charging
3 system is different from a packet switched communication protocol of said internal
4 backbone network.

1 13. (Amended) The packet radio system as claimed in claim 3, wherein the
2 communication protocol between the billing gateway support node and the charging
3 system is different from a packet switched communication protocol of said internal
4 backbone network.
